


Terms used [disaster recovery](#) [updating log](#) [write command](#)

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 Relevance scale


[1 Management of a remote backup copy for disaster recovery](#)

Richard P. King, Nagui Halim, Hector Garcia-Molina, Christos A. Polyzois
May 1991 **ACM Transactions on Database Systems (TODS)**, Volume 16 Issue 2

Publisher: ACM Press

Full text available: pdf(2.48 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A remote backup database system tracks the state of a primary system, taking over transaction processing when disaster hits the primary site. The primary and backup sites are physically isolated so that failures at one site are unlikely to propagate to the other. For correctness, the execution schedule at the backup must be equivalent to that at the primary. When the primary and backup sites contain a single processor, it is easy to achieve this property. However, this is harder to do when ...

Keywords: database initialization, hot spare, hot standby, remote backup



[2 Disaster Recovery](#)

Mark F. Komarinski
August 1994 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

 Full text available: html(10.60 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Something is wrong, now what: This article will help you figure out what went wrong, how to get started on fixing it, or now to prepare for possible crashes.



[3 ARIES: a transaction recovery method supporting fine-granularity locking and partial rollbacks using write-ahead logging](#)

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz
March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Publisher: ACM Press

 Full text available: pdf(5.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging



4 Multi-level transaction management for complex objects: implementation, performance, parallelism

Gerhard Weikum, Christof Hasse

October 1993 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 2 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(2.83 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Multi-level transactions are a variant of open-nested transactions in which the subtransactions correspond to operations at different levels of a layered system architecture. They allow the exploitation of semantics of high-level operations to increase concurrency. As a consequence, undoing a transaction requires compensation of completed subtransactions. In addition, multi-level recovery methods must take into consideration that high-level operations are not necessarily atomic if multiple pages ...

Keywords: atomicity, complex objects, inter- and intratransaction parallelism, multi-level transactions, performance, persistence, recovery



5 Proceedings - only: The data management problem in post-pc devices and a solution

Ramakrishna Gummadi, Randy H. Katz

September 2000 **Proceedings of the 9th workshop on ACM SIGOPS European workshop: beyond the PC: new challenges for the operating system**

Publisher: ACM Press

Full text available: [pdf\(104.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The demand for network-enabled limited-footprint mobile devices is increasing rapidly. A central challenge that must be addressed in order to use these next-generation devices effectively is efficient data management --- **persistent data** manipulated or required by applications executing on these computationally and communicationally impoverished devices must be **consistently managed** and made **highly available**. This data management has traditionally been the ...



6 Disaster recovery planning for academic computing centers

Renate Rohde, Jim Haskett

June 1990 **Communications of the ACM**, Volume 33 Issue 6

Publisher: ACM Press

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Planning for recovery from a disaster is quickly becoming recognized as a necessity for higher education computing installations. This article presents a structural framework, describes the stages, and tells how to implement a disaster recovery plan specifically geared to an academic computing organization.

Keywords: backup files, recovery, system management



7 Disaster recovery techniques for database systems

Manhoi Choy, Hong Va Leong, Man Hon Wong

November 2000 **Communications of the ACM**

Publisher: ACM Press

Full text available: [pdf\(412.04 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

8 Computer backup pools, disaster recovery, and default risk

 Yehuda Kahane, Seev Neumann, Charles S. Tapiero
January 1988 **Communications of the ACM**, Volume 31 Issue 1

Publisher: ACM Press

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#),
Full text available:  [pdf\(688.36 KB\)](#)  [review](#)

There is a growing popularity of computer backup pools, where a few members share the ownership, or right for service, of a computer center. Such a center stands by to provide for the lost computing capacity of a member suffering a computer breakdown and disaster recovery. The efficiency of such a solution may be examined from various points of view, such as costs, response time, reliability etc. We focus on the reliability of such an arrangement. Two types of default risks are discussed: t ...

Results 1 - 8 of 8

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Results for "(disaster recovery<in>metadata) <and> (updating log<in>metadata))<and>..."

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Refine Search

Search Results -

Terms	Documents
((disaster\$ or failure\$) and database\$ and (updat\$ or modif\$) and log near block\$ and primary near database\$ and secondary near database\$).clm.	0

Database:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins
Search:	<input style="width: 150px; height: 25px; border: 1px solid black; margin-bottom: 5px;" type="text" value="L12"/> Refine Search Recall Text Clear Interrupt

Search History

DATE: Friday, January 20, 2006 [Printable Copy](#) [Create Case](#)

Set	Name	Query	Hit Count	Set Name
		side by side		result set
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L12</u>		((disaster\$ or failure\$) and database\$ and (updat\$ or modif\$) and log near block\$ and primary near database\$ and secondary near database\$).clm.	0	<u>L12</u>
<u>L11</u>		((disaster\$ or failure\$) and database\$ and (updat\$ or modif\$) and log near block\$ and primary near database\$ and secondary near database\$).ab.	0	<u>L11</u>
<u>L10</u>		((disaster\$ or failure\$) and database\$ and (updat\$ or modif\$) and log near block\$ and primary near database\$ and secondary near database\$).ti.	0	<u>L10</u>
<u>L9</u>		L8 and primary near database\$ and secondary near database\$	9	<u>L9</u>
<u>L8</u>		(disaster\$ or failure\$) and database\$ and (updat\$ or modif\$) and log near block\$	144	<u>L8</u>
<u>L7</u>		L6 and L5	10	<u>L7</u>
<u>L6</u>		(disaster\$ or failure\$) same (database\$).clm.	671	<u>L6</u>
<u>L5</u>		L4 and L3	257	<u>L5</u>
<u>L4</u>		(disaster\$ or failure\$) same (database\$).ab.	1757	<u>L4</u>
<u>L3</u>		(disaster\$ or failure\$) same (database\$).ti.	605	<u>L3</u>
<u>L2</u>		(disaster\$ or failure\$) same database\$	11388	<u>L2</u>
		DB=USPT; PLUR=YES; OP=OR		

Refine Search

Search Results -

Terms	Documents
L6 and L5	10

Database:

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side by side			result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L7</u>	L6 and L5	10	<u>L7</u>
<u>L6</u>	(disaster\$ or failure\$) same (database\$).clm.	671	<u>L6</u>
<u>L5</u>	L4 and L3	257	<u>L5</u>
<u>L4</u>	(disaster\$ or failure\$) same (database\$).ab.	1757	<u>L4</u>
<u>L3</u>	(disaster\$ or failure\$) same (database\$).ti.	605	<u>L3</u>
<u>L2</u>	(disaster\$ or failure\$) same database\$	11388	<u>L2</u>
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L1</u>	5280611.pn.	1	<u>L1</u>

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Search Results - Record(s) 1 through 10 of 10 returned.

- 1. Document ID: US 20060015500 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 10

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060015500

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060015500 A1

TITLE: System and method for securing database records from tampering and managing and recovering from component failure in devices such as postage value dispensing systems

PUBLICATION-DATE: January 19, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Heiden; Richard W.	Shelton	CT	US

US-CL-CURRENT: 707/9

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw Desc](#) [Image](#)

- 2. Document ID: US 20050283504 A1

L7: Entry 2 of 10

File: PGPB

Dec 22, 2005

PGPUB-DOCUMENT-NUMBER: 20050283504

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050283504 A1

TITLE: Disaster recovery system suitable for database system

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw Desc](#) [Image](#)

- 3. Document ID: US 20040098371 A1

L7: Entry 3 of 10

File: PGPB

May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040098371

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040098371 A1

TITLE: Failure recovery in a parallel-processing database system

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw Desc](#) [Image](#)

4. Document ID: US 20030126163 A1

L7: Entry 4 of 10

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030126163

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030126163 A1

TITLE: Method for file deletion and recovery against system failures in database management system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw Desc	Image
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 5. Document ID: US 20020196969 A1

L7: Entry 5 of 10

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020196969

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020196969 A1

TITLE: Web-based interface with defect database to view and update failure events

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw Desc	Image
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 6. Document ID: US 6944635 B2

L7: Entry 6 of 10

File: USPT

Sep 13, 2005

US-PAT-NO: 6944635

DOCUMENT-IDENTIFIER: US 6944635 B2

TITLE: Method for file deletion and recovery against system failures in database management system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw Desc	Image
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 7. Document ID: US 6775630 B2

L7: Entry 7 of 10

File: USPT

Aug 10, 2004

US-PAT-NO: 6775630

DOCUMENT-IDENTIFIER: US 6775630 B2

TITLE: Web-based interface with defect database to view and update failure events

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draw Desc	Image
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 8. Document ID: US 6732123 B1

L7: Entry 8 of 10

File: USPT

May 4, 2004

US-PAT-NO: 6732123

DOCUMENT-IDENTIFIER: US 6732123 B1

TITLE: Database recovery to any point in time in an online environment utilizing disaster recovery technology

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

9. Document ID: US 6567928 B1

L7: Entry 9 of 10

File: USPT

May 20, 2003

US-PAT-NO: 6567928

DOCUMENT-IDENTIFIER: US 6567928 B1

TITLE: Method and apparatus for efficiently recovering from a failure in a database that includes unlogged objects

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

10. Document ID: US 5280611 A

L7: Entry 10 of 10

File: USPT

Jan 18, 1994

US-PAT-NO: 5280611

DOCUMENT-IDENTIFIER: US 5280611 A

** See image for Certificate of Correction **

TITLE: Method for managing database recovery from failure of a shared store in a system including a plurality of transaction-based systems of the write-ahead logging type

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn Desc](#) | [Image](#)

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1. Document ID: US 20060010180 A1

Using default format because multiple data bases are involved.

L9: Entry 1 of 9

File: PGPB

Jan 12, 2006

PGPUB-DOCUMENT-NUMBER: 20060010180

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060010180 A1

TITLE: Disaster recovery processing method and apparatus and storage unit for the same

PUBLICATION-DATE: January 12, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kawamura; Nobuo	Atsugi		JP
Yamaguchi; Kota	Yamato		JP
Oeda; Takashi	Sagamihara		JP

US-CL-CURRENT: 707/204

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMD](#) [Draw Desc](#) [Image](#)

2. Document ID: US 20050193034 A1

L9: Entry 2 of 9

File: PGPB

Sep 1, 2005

PGPUB-DOCUMENT-NUMBER: 20050193034

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050193034 A1

TITLE: Disaster recovery processing method and apparatus and storage unit for the same

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMD](#) [Draw Desc](#) [Image](#)

3. Document ID: US 20050114407 A1

L9: Entry 3 of 9

File: PGPB

May 26, 2005

PGPUB-DOCUMENT-NUMBER: 20050114407

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050114407 A1

TITLE: High-performance asynchronous peer-to-peer remote copy for databases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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[] 4. Document ID: US 20040193658 A1

L9: Entry 4 of 9

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040193658

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040193658 A1

TITLE: Disaster recovery processing method and apparatus and storage unit for the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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[] 5. Document ID: US 20040139124 A1

L9: Entry 5 of 9

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040139124

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040139124 A1

TITLE: Disaster recovery processing method and apparatus and storage unit for the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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[] 6. Document ID: US 20040098425 A1

L9: Entry 6 of 9

File: PGPB

May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040098425

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040098425 A1

TITLE: Database System Providing Improved Methods For Data Replication

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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[] 7. Document ID: US 20020083281 A1

L9: Entry 7 of 9

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020083281

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020083281 A1

TITLE: Write logging in mirrored disk subsystems

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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8. Document ID: US 5937343 A

L9: Entry 8 of 9

File: USPT

Aug 10, 1999

US-PAT-NO: 5937343

DOCUMENT-IDENTIFIER: US 5937343 A

TITLE: Method and system for updating replicated databases in a telecommunication network system[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#) 9. Document ID: US 5913160 A

L9: Entry 9 of 9

File: USPT

Jun 15, 1999

US-PAT-NO: 5913160

DOCUMENT-IDENTIFIER: US 5913160 A

TITLE: Method and system for updating replicated databases in foreign and home telecommunication network systems for supporting global mobility of network customers[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw Desc](#) | [Image](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate GACS](#)

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